

One-step TUNEL Assay Kit

One-step TUNEL Assay Kit (Green, AF488)

CATALOG #
AAA177805

PRODUCT SYNONYMS

One-step TUNEL; One-step TUNEL Assay Kit (Green; AF488); One-step TUNEL assay kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Store at -20 degree C for 12 months. Label Solution should be stored in the dark.

ADDITIONAL INFORMATION

Related Product Information for One-step TUNEL assay kit

Background: The One-step TUNEL In Situ Apoptosis Kit applies a highly sensitive, fast and simple method to detect cell apoptosis. This kit is suitable for in situ apoptosis detection of tissue samples (paraffin section and frozen section) and cells (cell slide and cell smear). The results can be directly observed through a fluorescence microscope.

Principle of the Assay: When cells undergo apoptosis, specific DNA endonucleases will be activated, cutting the genomic DNA between the nucleosomes. The DNA of apoptotic cells is cleaved into multimers of 180~200bp fragments, corresponding to the oligonucleosomal size. Therefore, the DNA of apoptotic cells typically migrates as a ladder of 180~200bp on an agarose gel. The exposed 3'-OH of the broken DNA can be catalyzed by Terminal Deoxynucleotidyl Transferase (TdT) with fluorescein labeled dUTP, which can be detected with fluorescence microscope.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/one-step-tunel/177805>